

REMARKS

In response to the Office Action dated December 2, 2002 claim 1 has been amended. Claims 1-12 are active in this application, of which claim 1 and 9 are independent. Claims 2-6 have been indicated as allowable but objected to for being dependent from a rejected base claim.

Entry of the Amendments and Remarks is respectfully requested because entry of Amendment places the present application in condition for allowance, or in the alternative, better form for appeal. No new matters are believed to be added by this Amendment. Based on the above Amendments and the following Remarks, Applicants respectfully request that the Examiner reconsider the outstanding objections and rejections and they be withdrawn.

Allowable Claims

Claims 2-6 have been indicated as allowable and would be allowable if rewritten in independent form including all the limitations of the base claim and intervening claims. In response, new claims 9-12 are presented for examination. Independent claim 9 includes all the limitations of former base claim 1 and dependent claim 2. Claims 10-12 depend from claim 9 and are directed to patentable subject matter. Applicant submits that claims 9-12 are now allowable.

Obligation under 35 U.S.C. 1.56

Applicant believes that the inventor and invention dates of each claim were commonly owned at the time of invention.

Rejections Under 35 U.S.C. §103

In the Office Action, claims 1, 7 and 8 have been rejected under 35 U.S.C. §103(a) for being unpatentable over U. S. Patent No. 6,049,322 issued to Yoshikawa, *et al.* (“Yoshikawa”) in view of U. S. Patent No. 5,973,660 issued to Hashimoto, *et al.* (“Hashimoto”), further in view of U. S. Patent No. 5,777,610 issued to Sugimoto, *et al.* (“Sugimoto”). This rejection is respectfully traversed.

In order to reject a claim under 35 U.S.C. §103(a) there must be some suggestion or motivation, either in the reference themselves or in knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine the reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all of the claimed limitations.

Claim 1 is amended to now include the limitation,

wherein the data signal driver includes two groups of the data signal driver outputting a data signal from the first and the second image signal, one of which is the left-side of the signal processor and the other of which is the right-side of the processor.

Applicant submits that none of the references Yoshikawa, Hashimoto and Sugimoto suggest of teach a data signal driver that includes two groups of the data signal driver outputting a data signal from the first and the second image signal, one of which is the left-side of the signal processor and the other is the right-side of the processor.

Since none of the references teach or suggest all the claimed limitations, applicant submits that claim 1 is now allowable and that the 35 U.S.C. §103(a) rejection be withdrawn.

For the reasons above, Applicants respectfully submit that claim 1 is patentable over Yoshikawa, Hashimoto and Sugimoto. Likewise, claims 7 and 8, that are dependent from claim 1, would be also patentable at least for the same reason. Accordingly, Applicants respectfully request that all the rejections and objections over claims 1, 7 and 8 be withdrawn.

CONCLUSION

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicants believe that a full and complete response has been made to the outstanding Office Action and, as such, claims 1-12 are in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment is respectfully requested.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Hae-Chan Park', written in a cursive style.

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APPENDIX

The “marked-up” version of the amended claim is as follows:

1. (Twice Amended) A liquid crystal display, comprising:

a signal processor for generating and outputting a first image signal and a second image signal, a gray scale voltage, a gate voltage, and a driving control signal using an image data, a main control signal, and a power source all of which are supplied from an image supplying source, the driving control signal including a source driving control signal and a gate driving control signal;

a data signal driver for generating and outputting a data signal from the first image signal and the second image signal, the gray scale voltage and the source driving control signal all of which are input from said signal processor;

a printed circuit board having a plurality of wires for transmitting the signals and/or voltages of said signal processor to said data signal driver;

a gate signal driver for generating and outputting a gate signal from the gate voltage and the gate driving control signal of said signal processor; and

a liquid crystal display panel for displaying an image formed by receiving the data signal from said data signal driver and the gate signal from said gate signal driver,

wherein the plurality of wires comprises a first group of wires for transmitting the first image signal and a second group of wires for transmitting the second image signal, and the first group of wires are entirely spaced apart from the second group of wires, and

wherein the data signal driver includes two groups of the data signal driver outputting a data signal from the first and the second image signal, on eof which is the left-side of the signal processor and the other of which is the right-side of the processor.